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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/006,360	12/06/2001	Shoji Kobayashi	10973-063001	1671
26211	7590 10/03/2003		EXAM	INER
FISH & RICHARDSON P.C.			TSIDUŁKO, MARK	
45 ROCKEFELLER PLAZA, SUITE 2800 NEW YORK, NY 10111		2800	ART UNIT	PAPER NUMBER
,			2875	

DATE MAILED: 10/03/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)
	Application No.	
Office Action Summans	10/006,360	KOBAYASHI ET AL.
Office Action Summary	Examiner	Art Unit
TI MANUALO DATE ALL'	Mark Tsidulko	2875
The MAILING DATE of this communication app Period for Reply	pears on the cover sneet v	vitn the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a y within the statutory minimum of th will apply and will expire SIX (6) MC , cause the application to become A	reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
1)⊠ Responsive to communication(s) filed on <u>07 .</u>	lulv 2003 .	•
	is action is non-final.	•
Since this application is in condition for allowed closed in accordance with the practice under Disposition of Claims	ance except for formal ma	
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application	I.	
4a) Of the above claim(s) is/are withdray	wn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-13</u> is/are rejected.		•
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	r election requirement.	
Application Papers		
9) The specification is objected to by the Examine	r.	•
10)☐ The drawing(s) filed on is/are: a)☐ accep	oted or b) objected to by	the Examiner.
Applicant may not request that any objection to the	= :	•
11) The proposed drawing correction filed on	_is: a) ☐ approved b) ☐	disapproved by the Examiner.
If approved, corrected drawings are required in rep	•	
12) The oath or declaration is objected to by the Ex	aminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)⊠⋅All b) Some * c) None of:		·
1. Certified copies of the priority documents	s have been received.	
2. Certified copies of the priority documents	s have been received in A	Application No
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).	•
14) Acknowledgment is made of a claim for domestic	•	
a) The translation of the foreign language pro		
15) Acknowledgment is made of a claim for domesti	• •	
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)
S. Patent and Trademark Office FO-326 (Rev. 04-01) Office Act	tion Summary	Part of Paper No. 8

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DETAILED ACTION

The submission of amendment filed on 7/7/03 is acknowledged. At this point all claims left unchanged. Thus, claims 1-13 are at issue in the instant application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1-4, 8, 9, 11-13 rejected under 35 U.S.C. 103(a) as being unpatentable over Gotou (US 5,562,336).

Referring to Claim 1 Gotou discloses (Fig.3) a vehicle headlamp device having map information acquiring means for acquiring positional information on vehicle on a map and the environmental condition detection means for detecting an environmental condition of the road (col.4, lines 36-40).

The functional recitation that *light distribution control means performs light distribution* control according to one of the information adopted with priority given thereto has not been given patentable weight because it is narrative in form. In order to be given patentable weight, a functional recitation must be expressed as a "means" for performing specified function, and must be supported by recitation in the claim of sufficient structure to warrant the presence of the functional language. In re Fuller, 1929 C.D. 172; 388 O.G. 279.

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Referring to Claims 2, 3 Gotou discloses a vehicle headlamp device wherein a lane with respect to the road on which the vehicle is driven is detected (col.2, lines 52-62). It is understandable that the detected result can be only positive (good) or negative (bad).

Referring to Claim 4 Gotou discloses the instant claimed invention except for the light distribution control is performed by using the modified information.

The light distribution control is performed by using the modified information because:

both the present position information of a vehicle and environmental information should be acquired in a periodic manner (for example, on the order of 1 second). Environmental condition detecting means detects an environmental condition relating to a traveling road according image information and than this information is used by the map information means and goes to the light distribution control. It means that the information acquired by environmental condition detecting means every 1 second (second information) is different from the previous (first) information and every 1 second the light distribution control means uses a modified information.

Referring to Claim 8 Gotou discloses a vehicle headlamp device having a steering information (Fig.3, [22]).

Referring to Claim 9 Gotou discloses a vehicle headlamp device wherein the light distribution control means controls driving means which controls an optical axis of the head lamp)col.2, lines 38-51).

Referring to Claims 11, 12 Gotou discloses a vehicle headlamp device wherein the control means controls an optical axis of the lamp in a lateral direction and area ahead of the vehicle (Abstract).

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Referring to Claim 13 Gotou discloses a vehicle headlamp device wherein the control means controls to irradiate a lane mark near the vehicle (claims 8, 10).

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Claims 5-7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gotou (US 5,562,336) in view of Gotoh (US 5,193,572).

Referring to Claim 5 Gotou discloses the instant claimed invention except for when detection capability of the imaging unit is low, light distribution control means performs light distribution control according to the information derived from map information acquiring means.

Gotoh discloses (Fig.4) head lamp device for vehicle wherein imaging unit [12] and map information means [21] are connected to the light distribution control means separately and when the imaging unit is low, the light distribution control means performs light distribution control according to the information derived from map information acquiring means.

It would have been obvious to one having ordinary skill in the art, at the time the invention was made to provide connection of the imaging unit and map information unit to the light distribution control means as taught by Gotoh for the headlamp of Gotou in order to perform light distribution control according to the information derived from the map information means when detection capability of the imaging unit is low.

Referring to Claim 6 Gotou discloses the instant claimed invention except for when lanemark detection capability of the imaging unit is low, the light distribution control means performs light distribution control according to the information derived from map information acquiring means.

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Gotoh discloses (Fig.4) head lamp device for vehicle wherein imaging unit [12] and map information means [21] are connected to the light distribution control means separately and when the lane-mark detection capability of the imaging unit is low (i.e. imaging unit is low), the light distribution control means performs light distribution control according to the information derived from map information acquiring means.

It would have been obvious to one having ordinary skill in the art, at the time the invention was made to provide arrangement of the imaging unit and map information unit to the light distribution control means as taught by Gotoh the headlamp of Gotou in order to perform light distribution control according to the information derived from the map information means when the lane-mark detection capability of the imaging unit is low.

Referring to Claim 7 Gotou discloses the instant claimed invention except for when worsering of weather is detected, light distribution control means performs light distribution control to according the information derived from the map information means.

Gotoh discloses (Fig.4) head lamp device for vehicle wherein imaging unit [12] and map information means [21] are connected to the light distribution control means separately and when worsering of weather is detected (i.e. imaging unit is low), the light distribution control means performs light distribution control according to the information derived from map information acquiring means.

It would have been obvious to one having ordinary skill in the art, at the time the invention was made to provide arrangement of the imaging unit and map information unit to the light distribution control means as taught by Gotoh the headlamp of Gotou in order to perform

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light distribution control according to the information derived from the map information means when detection capability of the imaging unit is low as result of worsering of weather.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gotou (US 5,562,336) in view of Stam et al. (U.S. 5,837,994).

Gotou discloses a vehicle headlight control system having a light distribution control means.

Gotou discloses the instant claimed invention except for the light distribution control means controls an infrared lamp.

Stam et al. discloses (Fig.5) the light distribution control unit [201] that controls the infrared lamps [206] (col.3, lines 48-56). It would have been obvious to one having ordinary skill in the art, at the time the invention was made to provide the light distribution control unit of Stam et al. for the device of Gotou in order to control emitting of infrared ray.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Tsidulko whose telephone number is (703)308-1326. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (703) 305-4939. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703)872-9319 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

M.T.

September 10, 2003

Sandra O'Shea

Supervisory Patent Examiner **Technology Center 2800**